Panasonic

900MHz Digital Cordless Phone

Model No. **KX-TC1713B**

Pulse or tone dialing capability

Operating Instructions

Caller ID Compatible

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for about 15 hours before initial use.

Panasonic World Wide Web address: http://www.panasonic.com
for customers in the USA or Puerto Rico

Before Initial Use

Please read IMPORTANT SAFETY
INSTRUCTIONS on page 64 before use.
Read and understand all instructions.

Thank you for purchasing your new Panasonic cordless telephone.

Caller ID, Call Waiting and Voice Mail Service, where available, are
telephone company services After subscribing to Caller ID, this phone will
display the caller's name and phone number Call Waiting Caller ID, which
displays a second caller's name and phone number while the user is on
another call, requires a subscription to both Caller ID and Call Waiting
After subscribing to Voice Mail Service, this phone's message-waiting
indicator will flash when there are messages in the mail box

Attach your purchase receipt here.

For your future reference

Serial No   Date of purchase
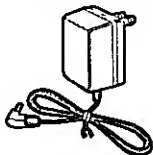(found on the bottom of the unit)

Name and address of dealer

Accessories included

For extra orders, call 1-800-332-5368

☐ AC Adaptor p 11	☐ Telephone Line Cord p 11
Order No KX-TCA1-G	
one	one
☐ Belt Clip p 16	☐ Wall Mounting Adaptor p 56
Order No PQKE10130Z1	Order No PQKL10035Z1
one	one

For Best Performance

Battery Charge

A rechargeable Ni-Cd battery powers the handset. Charge the battery for about **15 hours** before initial use (p. 12).
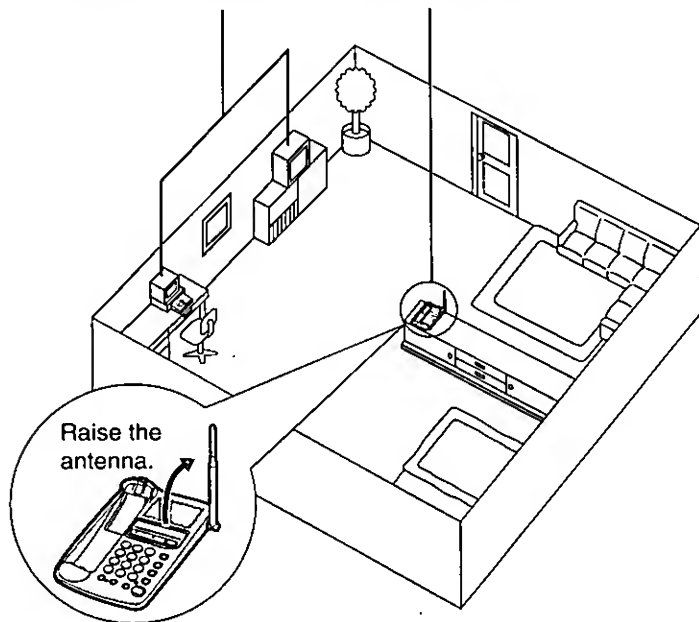
The battery is beneath this cover.

Base Unit Location/Noise·

Calls are transmitted between the base unit and the handset using wireless radio waves. **For maximum distance and noise-free operation**, the recommended base unit location is:

Away from electrical appliances such as a TV or personal computer.

In a HIGH and CENTRAL location with no obstructions such as walls.

Raise the antenna.

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Contents

Advanced Operation

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Base unit

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[VOICE MAIL]
Button p 50

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(Microphone)
p 25

[HOLD/RINGER]
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p 12

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and Indicator
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Handset

Back side

Panasonic

Speaker
(p 22)

Antenna

Display (p 8)

(Talk) Button
(p 21, 28)

OFF Button (p 21, 31)

Navigator Key
[▲], [▼], EDIT ▶,
CH ◀ (Channel)]
(p 17, 22, 23, 31, 40, 41)

Headset Jack
(p 16)

(Speakerphone)
Button (p 22, 28)

HOLD/INTERCOM/CLEAR
Button (p 23, 24, 36, 51)

TONE Button
(p 53)

REDIAL/PAUSE/FUNCTION
Button (p 17, 22, 54)

Microphone (p 22)

Charge Contacts (p 13)

FLASH/CALL WAIT/VOICE MAIL
Button (p 50, 54, 55)

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Display

The handset shows you instructions and information on the display. These display prompts are shown below.

| No items stored |

The Caller List is empty or there are no stored items in the directory.

| Recharge
ᵪ[0]ᵪ |

The battery needs to be charged. Place the handset on the base unit to charge the battery (p. 12).

| 12 new calls
[ⁿⁿⁿ] |

The display shows the number of new calls and the battery strength (p. 12) while the handset is on the base unit.

| 12 new calls
▼▲ ▷=Directory |

The display shows the number of new calls when ▽ or ▲ is pressed while the handset is off the base unit.
To search from the most recent call, press ▽.
To search from the oldest call, press ▲ (p. 31).
To go to the directory list, press **EDIT** ▷ (Directory key).

| ᵪ Ringer offᵪ
[ⁿⁿⁿ] |

When the ringer volume is set to OFF (p. 19), "Ringer off" will flash for about 45 seconds before the unit returns to the standby mode (p. 13).

| Voicemail |

The display shows the voice mail message(s) is/are recorded (p. 47).

```
ROBINSON,TINA
1-000-222-3333
```

When a call is received, the display shows the caller's name and number after the first ring

```
Talk

01-06-35   [□□□]
```

During a conversation, the display shows the length of the call (ex 1 hour, 6 minutes and 35 seconds) The battery strength is also displayed (p 12)

```
No link to base
Place on cradle
and try again
```

The handset has lost communication with the base unit Place the handset on the base unit and try again

```
SMITH,JACK
1-222-333-4444
11 20A JAN12 ×3
```

This is a name from the Caller List
The display shows
—the caller's name,
—the caller's number,
—the time and date of the last call
(ex Jan 12, 11 20 AM), and
—the number of times called (ex 3 times)

```
Ann
1234567890
```

This is a name from the directory The stored name and phone number are displayed

```
Directory full
```

When trying to store an item or Caller List information in the directory, the directory memory is full (p 35, 40)

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◆ Display

Save error	During a programming procedure, the handset has lost communication with the base unit Move closer to the base unit

Intercom hold 00-00-07 〔▮▮▮〕	An outside call has been put on hold by the handset in the intercom mode. To release the hold, press 🔌 or 🔲

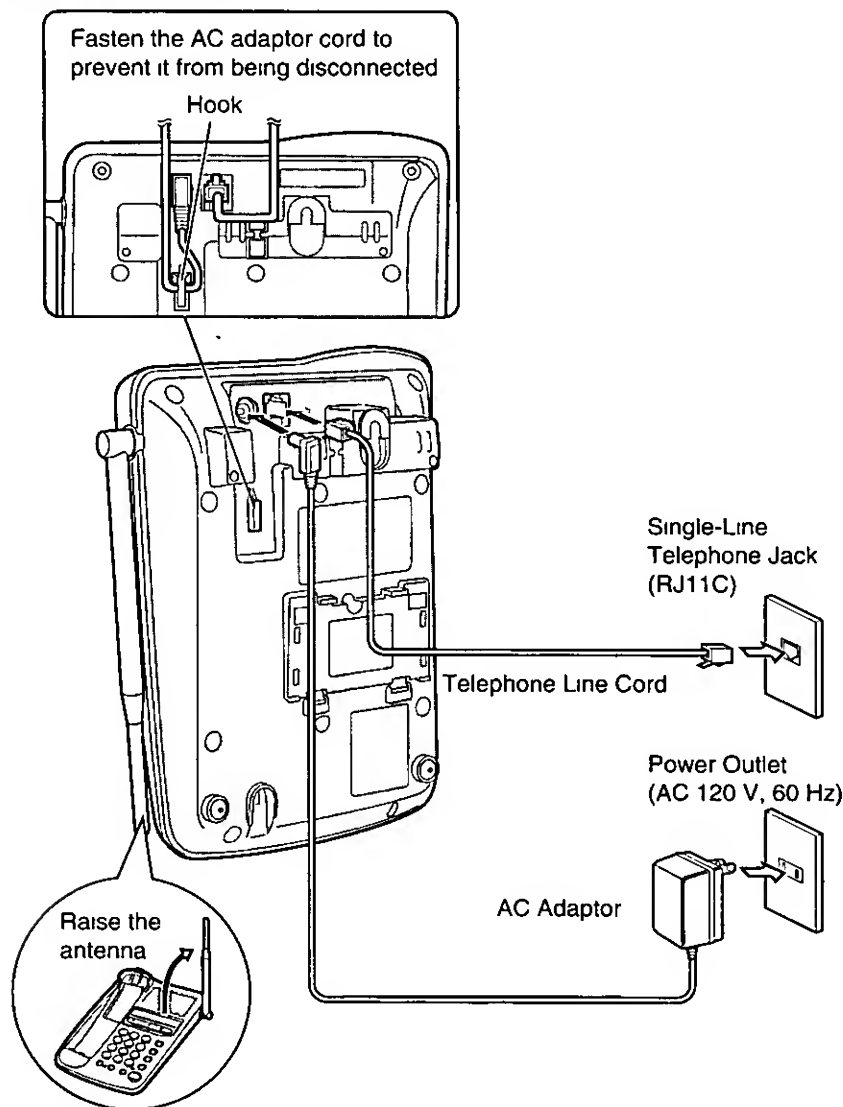|	
BROWN,NANCY 1-000-222-3333 ----Waiting----	A second call is received during a conversation (p 54)

Please lift up and try again	▼, ▲, CH ◄ or EDIT ► was pressed while the handset was on the base unit Lift the handset and press the button again

Not available	▼, ▲, CH ◄ or EDIT ► was pressed while the base unit was not in the standby mode

Connections

Fasten the AC adaptor cord to
prevent it from being disconnected

Hook

Preparation

Single-Line
Telephone Jack
(RJ11C)

Telephone Line Cord

Power Outlet
(AC 120 V, 60 Hz)

AC Adaptor

Raise the
antenna

○USE ONLY WITH Panasonic AC ADAPTOR KX-TCA1 (Order No KX-TCA1-G)

○The AC adaptor must remain connected at all times (It is normal for the adaptor
to feel warm during use)

○To connect a standard telephone on the same line, see page 59

○If your unit is connected to a PBX which does not support Caller ID and voice
mail services, you cannot access those services

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Battery Charge

Place the handset on the base unit and charge for about **15 hours** before initial use

● The IN USE/CHARGE indicator lights

OR

IN USE/CHARGE Indicator
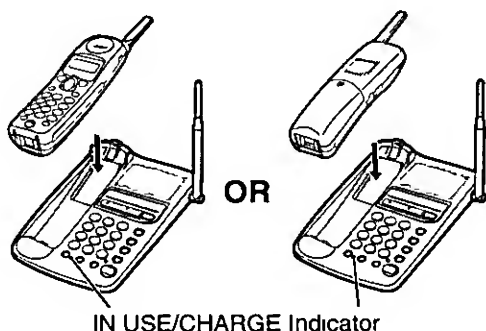
Battery strength

You can check the battery strength on the display while the handset is on the base unit, while it is in use (making/answering a call etc), or after viewing the Caller List or directory items, programming etc
The battery strength will remain on the display for a few seconds after using the handset, then the display will return to the standby mode (see next page)
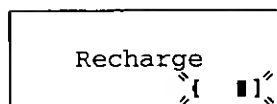
The battery strength is as shown in the chart below

Display prompt	Battery strength
(▮▮▮)	Fully charged
(▮▮)	Medium
(▮)	Low
(▮) (flashing)	Needs to be recharged

Recharge

Recharge the battery when
— "Recharge" is displayed,
— "(▮)" flashes on the display, or
— the handset beeps intermittently while it is in use

```
Recharge
  ( ▮ )
```

● If you DO NOT recharge the handset battery for more than 15 minutes, the display will keep indicating "Recharge" and/or "(▮)" will continue to flash

Battery information

After your Panasonic battery is fully charged (p 12)

Operation	Approx. battery life
While in use (TALK)	Up to about 6 hours
While not in use (Standby)	Up to about 14 days

o Battery life may be shortened depending on usage conditions, such as viewing the Caller ID Caller List or directory list, and ambient temperature
o **Clean the handset and the base unit charge contacts with a soft, dry cloth once a month Clean more often if the unit is subject to grease, dust or high humidity** Otherwise the battery may not charge properly
o If the battery is fully charged, you do not have to place the handset on the base unit until "Recharge" is displayed and/or "[[]]" flashes This will maximize the battery life
o The battery cannot be overcharged

Standby Mode

Handset (While off the base unit)

The handset goes into the standby mode after you finish using the handset (making/answering a call, viewing the Caller List or directory list etc) The display is blank, but the handset can receive calls
The battery life is conserved in this mode

Base unit

The base unit goes into the standby mode after you finish using the base unit (making/answering a call, using the intercom etc) Programming is possible **only when** the base unit is in the standby mode

Selecting the Dialing Mode

If you have touch tone service, set to "Tone". If rotary or pulse service is used, set to "Pulse". Your phone comes from the factory set to "Tone".
Make sure the unit is in the standby mode.

1 Press (**REDIAL/PAUSE/FUNCTION**).

```
 Program
▶Save directory
 Ringer volume
```

2 Press ▼ or ▲ repeatedly until the arrow points to "Program".

```
 Ringer volume
▶Program
 Save directory
```

3 Press **EDIT** ▶.

```
 Talk switching
▶LCD contrast
 Set flash time
```

4 Press ▼ or ▲ repeatedly until the arrow points to "Set dial mode".

```
 Set line mode
▶Set dial mode
 Talk switching
```

5 Press **EDIT** ▶.

```
 Dial mode
           :Tone
 ▽△       ▶=Save
```

6 Press ▼ or ▲ to select "Pulse" or "Tone".

7 Press **EDIT** ▶ (Save key).
● A beep sounds.
● To return to the standby mode, press (**OFF**).

```
 Dial mode
           :Pulse
```

● You can exit the programming mode any time by pressing (**OFF**).

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Selecting the Line Mode

If the line is connected to a low voltage system such as a PBX, set to "B". Your phone comes from the factory set to "A".
Make sure the unit is in the standby mode.

1 Press (**REDIAL/PAUSE/FUNCTION**).

```
  Program
▶Save directory
  Ringer volume
```

2 Press ▼ or ▲ repeatedly until the arrow points to "Program".

```
  Ringer volume
▶Program
  Save directory
```

3 Press EDIT ▷.

```
  Talk switching
▶LCD contrast
  Set flash time
```

4 Press ▼ or ▲ repeatedly until the arrow points to "Set line mode".

```
  Voicemail tone
▶Set line mode
  Set dial mode
```

5 Press EDIT ▷.

```
Line mode
        :A
▽△      ▷=Save
```

6 Press ▼ or ▲ to select "B" or "A".

7 Press EDIT ▷ (Save key).
○A beep sounds.
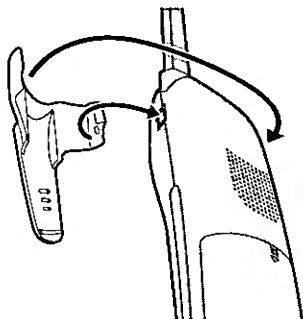○To return to the standby mode, press (OFF).

```
Line mode
        :B
```

○You can exit the programming mode any time by pressing (OFF).
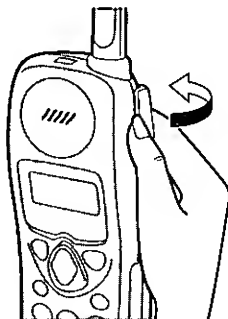
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Using the Belt Clip

You can hang the handset on your belt or pocket using the belt clip.

**To attach the belt clip**　　**To remove the belt clip**
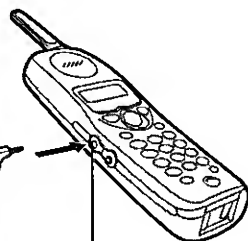
Using an Optional Headset

Plugging an optional headset into the handset allows a hands-free phone conversation. Please use only a Panasonic KX-TCA87 or KX-TCA90 headset. To order, call the accessories telephone number on page 2.

Connecting an optional headset to the handset

Open the headset jack cover, and connect an optional headset to the headset jack as shown below.
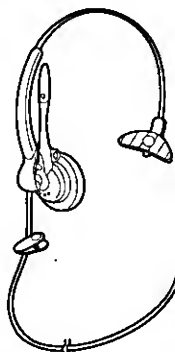
The illustration headset is a KX-TCA90.

Headset Jack

When an optional headset is connected to the handset, make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

Programmable Functions ⇨

You can program the following function items **using the handset near the base unit**. The display shows the programming instructions. See the corresponding pages for function details.
Make sure the unit is in the standby mode.

Press (**REDIAL/PAUSE/FUNCTION**).

<Function menu>*

```
▶Save directory ······To store an item in the directory (p. 40).
 Ringer volume ······To select the ringer volume (p. 19).
 Program ═══╗
```

Press **EDIT** (▷).

<Function menu>*

```
▶LCD contrast ········· To select the LCD contrast (p. 20).
 Set flash time ··· To select the flash time (p. 55).
 Save mailbox# ······ To store a voice mail access number (p. 47).
 Voicemail tone ··· To set the voice mail tone (p. 49).
 Set line mode ··· To select the line mode (p. 15).
 Set dial mode ···· To select the dial mode (p. 14).
 Talk switching ··· To set the auto talk feature (p. 18).
```

During programming
*To select a desired function item, press (▼) or (▲) repeatedly until the arrow points to the item. Then press **EDIT** (▷) to go to the next step.

o If the handset displays "No link to base Place on cradle and try again." and an alarm tone sounds, move closer to the base unit and try again.
o You can exit the programming mode any time by pressing (**OFF**).
o If you do not press any buttons for 60 seconds, the unit will return to the standby mode.

Setting the Auto Talk Feature

The Auto Talk feature allows you to answer a call by lifting the handset off the base unit without pressing ⟨➘⟩ or ⟨✆⟩. If you want to use this feature, turn the feature ON by programming. Your phone comes from the factory set to OFF.

Make sure the unit is in the standby mode.

1 Press [REDIAL/PAUSE/FUNCTION].

2 Press ⟨▼⟩ or ⟨▲⟩ repeatedly until the arrow points to "Program".

```
  Ringer volume
▶Program
  Save directory
```

3 Press EDIT ⟨▶⟩.

```
  Talk switching
▶LCD contrast
  Set flash time
```

4 Press ⟨▼⟩ or ⟨▲⟩ repeatedly until the arrow points to "Talk switching".

```
  Set dial mode
▶Talk switching
  LCD contrast
```

5 Press EDIT ⟨▶⟩.

```
  Auto talk
            :Off
▽△        ▶=Save
```

**6** Press ⟨▼⟩ or ⟨▲⟩ to select "On" or "Off".

7 Press EDIT ⟨▶⟩ (Save key).
● A beep sounds.
● To return to the standby mode, press [OFF].

```
  Auto talk
            :On
```

● You can exit the programming mode any time by pressing [OFF].
● To answer a call when the Auto Talk feature is OFF, lift the handset off the base unit and press ⟨➘⟩ or ⟨✆⟩.
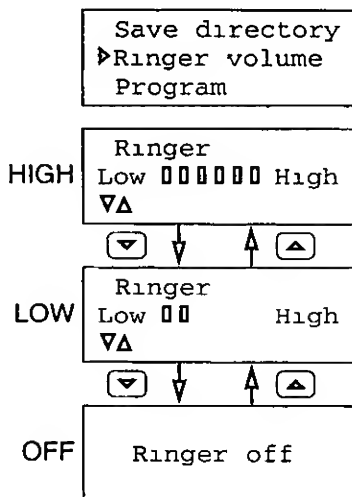
Selecting the Ringer Volume

You can program the handset and base unit ringer volume to HIGH, LOW or OFF If set to OFF, the handset/base unit will not ring Your phone comes from the factory set to HIGH

Make sure the unit is in the standby mode

With the handset

1 Press (REDIAL/PAUSE/FUNCTION)

2 Press ▼ or ▲ repeatedly until the arrow points to "Ringer volume"

```
Save directory
▶Ringer volume
 Program
```

3 Press **EDIT** ▷

HIGH
```
 Ringer
Low ▯▯▯▯▯▯ High
▽△
```

4 Press ▼ or ▲ to select the desired volume

⊙The selected volume is displayed and rings

⊙The handset will return to the standby mode

⊙**To turn the ringer OFF,** press and hold ▼ until 2 beeps sound

⊙**To turn the ringer ON,** press ▲ or ▼

⊙The ringer will sound at the LOW level

▼ ▽   ▲ ▲

LOW
```
 Ringer
Low ▯▯      High
▽△
```

▼ ▽   ▲ ▲

OFF
```
Ringer off
```

⊙When you replace the battery, the selected ringer volume setting will return to the factory set (HIGH) Reprogram if necessary

With the base unit

⊙**To select HIGH (preset) or LOW,** press (HOLD/RINGER)

Each time you press the button, the ringer volume will change and the selected volume will ring

⊙**To turn the ringer OFF,** press and hold (HOLD/RINGER) until 2 beeps sound

⊙**To turn the ringer ON,** press (HOLD/RINGER)

The ringer will sound at the HIGH level

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Selecting the LCD Contrast

You can program the LCD contrast (5 levels). To make the display clearer, set to high level. Your phone comes from the factory set to level 3.
Make sure the unit is in the standby mode.

1 Press (REDIAL/PAUSE/FUNCTION).

2 Press ▼ or ▲ repeatedly until the arrow points to "Program".

```
 Ringer volume
▶Program
 Save directory
```

3 Press EDIT ▶.

```
 Talk switching
▶LCD contrast
 Set flash time
```

4 While the arrow points to "LCD contrast", press EDIT ▶.

```
 LCD contrast
 Low ▮▮▮   High
▼▲        ▶=Save
```

5 Press ▼ or ▲ to select the desired contrast.
●Each time you press ▼ or ▲, the LCD contrast will change.

6 Press EDIT ▶ (Save key).
●A beep sounds.
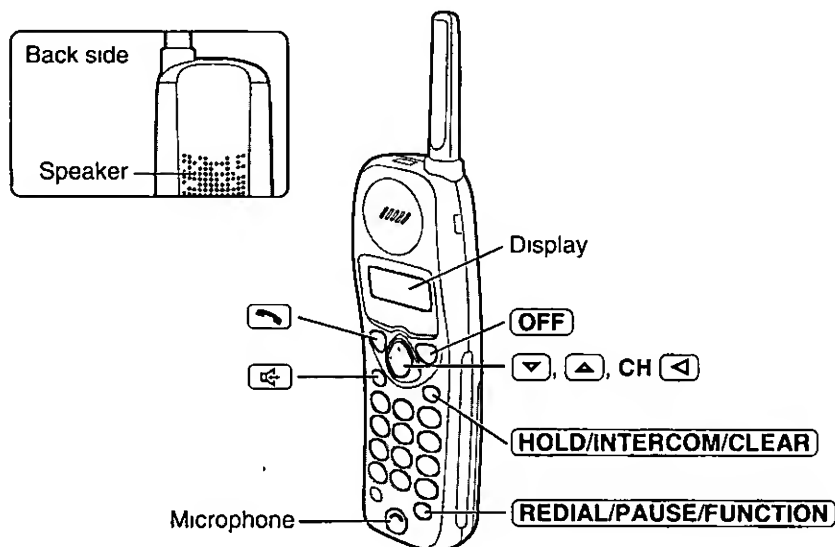●To return to the standby mode, press (OFF).

```
 LCD contrast
 Low ▮▮    High
```

●You can exit the programming mode any time by pressing (OFF).

With the Handset

To have a hands-free conversation, connect an optional headset to the handset (p 16)

Back side

Speaker

Display

⟨OFF⟩

▽, △, CH ◁

HOLD/INTERCOM/CLEAR

Microphone

REDIAL/PAUSE/FUNCTION

Basic Operation

1 Press 📞

Talk

2 Dial a phone number
 o The dialed number is displayed
 o After a few seconds, the display will show the length of the call and the battery strength

Talk
1112222

Talk
00-00-00   [ⁱⁱⁱ]

3 To hang up, press ⟨OFF⟩ or place the handset on the base unit

Off
00-01-08   [ⁱⁱⁱ]

o If "No link to base Place on cradle and try again " is displayed and an alarm tone sounds in step 1, move closer to the base unit or place the handset on the base unit, and try again

➡ Making Calls

To have a hands-free phone conversation (Using Digital Duplex Speakerphone)

1 Press 🕼

> SP-phone

2 Dial a phone number
- The dialed number is displayed
- After a few seconds, the display will show the length of the call and the battery strength

> SP-phone
>
> 1112222

> SP-phone
>
> 00-00-00   [ⒽⒷⒹ]

3 When the other party answers, talk into the microphone

**4** To hang up, press (OFF) or place the handset on the base unit

> Off
>
> 00-01-08   [ⒽⒷⒹ]

- If "No link to base Place on cradle and try again " is displayed and an alarm tone sounds in step 1, move closer to the base unit or place the handset on the base unit, and try again

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Hands-free Digital Duplex Speakerphone

For best performance, please note the following

- Talk alternately with the caller in a quiet room
- If the other party has difficulty hearing you, press ▼ to decrease the speaker volume
- If the other party's voice from the speaker cuts in/out during a conversation, press ▼ to decrease the speaker volume
- While talking using 🕾, you can switch to the hands-free phone conversation by pressing 🕼 To switch back to the receiver, press 🕾

If noise interferes with the conversation

Press **CH** ◄ to select a clearer channel in the talk, speakerphone or intercom, or move closer to the base unit

To redial the last number dialed on the handset

Press 🕾 or 🕼 ⇨ (REDIAL/PAUSE/FUNCTION)

To dial after confirming the entered number

1 Dial a phone number
  o If you misdial, press
  (HOLD/INTERCOM/CLEAR) One digit is
  erased from the right. Dial the correct phone
  number

```
3334444
```

2 Press ⟨☎⟩
  OR
  To have a hands-free phone conversation,
  press ⟨📢⟩, and when the other party
  answers, talk into the microphone
  o After a few seconds, the display will show the
  length of the call and the battery strength

```
Talk

3334444
```

```
Talk

00-00-00     [000]
```

3 To hang up, press (OFF) or place the handset
  on the base unit

To adjust the receiver volume (HIGH, MEDIUM or LOW) or speaker volume (6 levels) while talking

Press ⟨▲⟩ or ⟨▼⟩ while talking

While using ⟨☎⟩

o Each time you press ⟨▲⟩ or ⟨▼⟩, the
  volume level will change from MEDIUM
  (preset) to HIGH or LOW
o The display will return to the length of the
  call

o When you replace the battery, the selected
  receiver volume setting will return to the
  factory set (MEDIUM) Reprogram if
  necessary

HIGH
```
Loud

Low 000000 High
```
⟨▲⟩ ⇅ ⟨▼⟩

MEDIUM
```
Loud

Low 0000    High
```
⟨▲⟩ ⇅ ⟨▼⟩

LOW
```
Loud

Low 00     High
```

While using ⟨📢⟩

o Each time you press ⟨▲⟩ or ⟨▼⟩, the
  volume level will change from level 1 to 6
  Your phone comes from the factory set to
  level 3
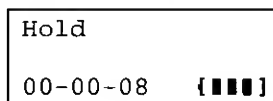
Ex Speaker volume
   level 6
```
Loud

Low 000000 High
```

Basic Operation

◆ Making Calls

To put a call on hold

Press (HOLD/INTERCOM/CLEAR)

● "Hold" is displayed
● If you do not press any key more than 6 minutes, an alarm tone will sound
● If you do not press any key more than 10 minutes after holding a call, a line will be disconnected

```
Hold

00-00-08  {∎∎∎}
```

To release the hold

From the handset, press [↘] or [☎]
From the base unit, press (SP-PHONE)

● If another phone is connected on the same line (p 59), you can also release the hold by lifting its handset

Backlit LCD display

The lighted handset display will stay on for a few seconds after pressing a handset button, lifting the handset off the base unit, hanging up a call, leaving the programming mode or ending the intercom

Lighted handset keypad

The handset dialing buttons will light when you press a button or lift the handset off the base unit, and flash when a call is received The lights will go out a few seconds after pressing a button, lifting the handset, answering a call, hanging up a call, leaving the programming mode or ending the intercom

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With the Base Unit (Digital Duplex Speakerphone)

REDIAL/PAUSE

HOLD/RINGER

SP-PHONE and Indicator

VOLUME ⌄, ⌃

MIC
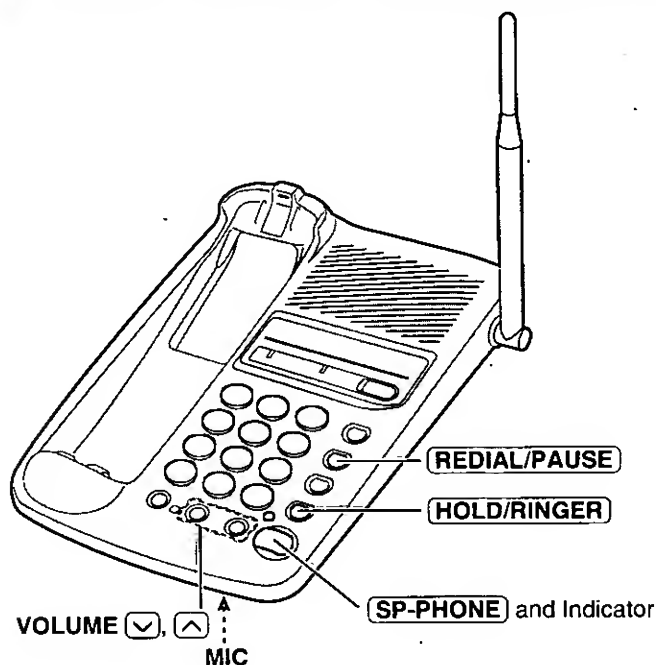
1 Press SP-PHONE.
○The SP-PHONE indicator lights.

2 Dial a phone number.

3 When the other party answers, talk into the MIC (microphone).

4 To hang up, press SP-PHONE.
○The indicator light goes out.

○To switch to the handset while using the speakerphone:
 —If the handset is off the base unit, press 🕽 or 📢.
 —If on the base unit, just lift up.
○During a call using the handset, the call can be switched to the base unit
 speakerphone by pressing SP-PHONE on the base unit.

► Making Calls

Hands-free Digital Duplex Speakerphone

For best performance, please note the following

- Talk alternately with the caller in a quiet room
- If the other party has difficulty hearing you, press **VOLUME** ⬇ to decrease the speaker volume
- If the other party's voice from the speaker cuts in/out during a conversation, press **VOLUME** ⬇ to decrease the speaker volume

To adjust the speaker volume (8 levels) while talking

To increase, press **VOLUME** ⬆
To decrease, press **VOLUME** ⬇

To redial the last number dialed on the base unit

Press (SP-PHONE) ➡ (REDIAL/PAUSE)

To put a call on hold

Press (HOLD/RINGER)

- The SP-PHONE indicator flashes

To release the hold

From the base unit, press (SP-PHONE)
From the handset, press ⬉ or ⬆ , or lift the handset off the base unit

- If another phone is connected on the same line (p 59), you can also release the hold by lifting its handset

Simultaneous Keypad Dialing

You can use the base unit like a standard telephone. After pressing ☜ or ☜ to make a call with the handset near the base unit, you can also dial using the base unit keypad.

1 Handset:
Press ☜ or ☜.

2 Base unit:
Dial a telephone number while hearing a dial tone on the handset.

○When the other party answers, talk using the handset.

3 Handset:
To hang up, press (OFF) or place the handset on the base unit.

Simultaneous Keypad Dialing is only possible after pressing ☜ or ☜.

Useful information

You can enter numbers using the base unit keypad during a call with the handset. For example, to access an answering service, electronic banking service, etc.

1. Handset:
Press ☜ or ☜.

2. Handset:
Dial a telephone number.

○You can also dial with base unit keypad.

3. Base unit:
Enter the required numbers while listening to the pre-recorded instructions.

4. Handset:
To hang up, press (OFF) or place the handset on the base unit.

Answering Calls

When a call is received, the unit rings and the CALLER ID indicator on the base unit flashes quickly. If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 29). In order to view the Caller ID information, please wait until the second ring to answer a call.

With the Handset

If the handset is off the base unit;
Press [↶].

●You can also answer a call by pressing any dialing button [0] to [9], [✱] or [#] (—**Any Key Talk**).

OR

Press [📢], and when the other party answers, talk into the microphone.

Microphone
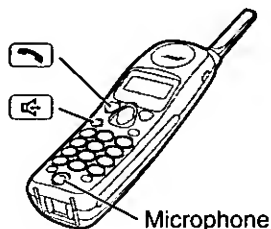
Auto Talk

If you set the Auto Talk feature to ON (p. 18), you can answer a call by lifting the handset off the base unit without pressing [↶] or [📢].

CALLER ID Indicator
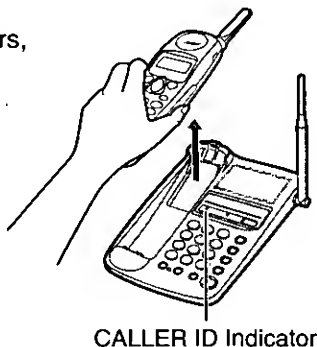
When an optional headset is connected (p. 16), make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

With the Base Unit

1 Press [SP-PHONE].
●The SP-PHONE indicator lights.

2 Talk into the MIC.

3 To hang up, press [SP-PHONE].
●The indicator light goes out.

MIC [SP-PHONE] and Indicator

28
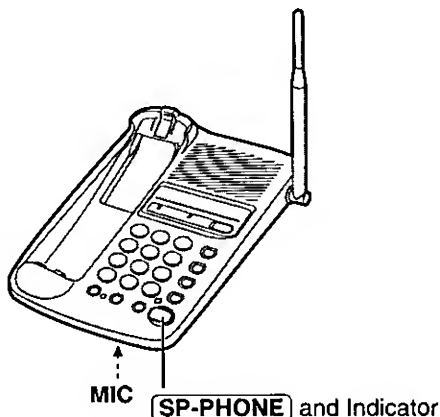
Caller ID Service ⇨

This unit is compatible with a Caller ID service offered by your telephone company If you subscribe to a Caller ID service, the calling party's information will be displayed on the handset after the first ring

The unit can record information of up to 50 different callers, including the time and date received and the number of times called, in the Caller List The Caller List information is sorted by the most recent to the oldest call When the 51st call is received, the first call is deleted

Using the list, you can automatically call back a caller You can store the callers' numbers from the Caller List into the directory

If you subscribe to a Call Waiting Caller ID Feature, when a second call is received while talking, the new caller's name and phone number will be displayed (p 54)

How caller information is displayed when a call is received
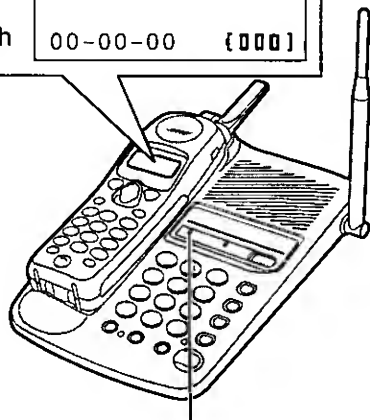
The handset display shows the caller's name and number after the first ring

```
ROBINSON,TINA
1-000-222-3333
```

↓

After you answer the call, the display will show the length of the call and the battery strength

```
Talk

00-00-00    {□□□}
```

The CALLER ID indicator flashes quickly when a call is being received

Basic Operation

⬛ Caller ID Service

● Caller information cannot be displayed in the following cases
  — If the caller dialed from an area which does not provide a Caller ID service, the display will show "Out of area"
  — If the caller has requested not to display his/her information, the display will show "Private caller"
● If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services
● The name display service may not be available in some areas For further information, please contact your telephone company

To check the number of new calls

When new calls have been received, the CALLER ID indicator flashes slowly on the base unit

While the handset is on the base unit:

If you have received 10 new calls, the display will show the following
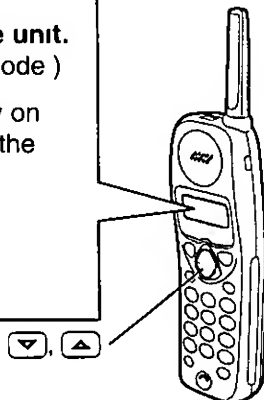
```
10 new calls
       [000]
```

CALLER ID Indicator

While the handset is off the base unit.
(The unit must be in the standby mode)

Press ⬇ or ⬆ to turn the display on
If you have received 10 new calls, the display will show the following

```
   10 new calls
▽△  ▷=Directory
```

Using the Caller List ⇨

Viewing the Caller List

To check who has called, follow the steps below.
Make sure the unit is in the standby mode.

1 Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.
- The display will show, for example, the following:

```
2 new calls
▼▲  ▶=Directory
```

- You can go to the directory list by pressing **EDIT** ▷ (p. 43).

2 To search from the most recent call, press ▼.
To search from the oldest call, press ▲.
- To scroll between callers, press ▼ or ▲.

```
SMITH,JACK
1-222-333-4444
 3:10P JUN10
```

3 To exit the list, press OFF.
- The handset will return to the standby mode.

Display

OFF

▼, ▲,
EDIT ▷

- Once new calls have been checked, "√" will be added.
- If "No items stored" is displayed in step 1, the Caller List is empty. Press ▼ or ▲ to return to the standby mode.
- If more than one call is received from the same caller, the date and time of the most recent call will be recorded. If the same caller calls again, the call entry with "√" will be deleted.
- If you do not press any buttons for 60 seconds, the unit will return to the standby mode.

31
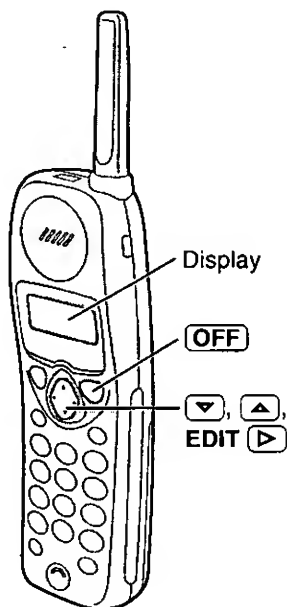
▶ Using the Caller List

Ex. When you search from the most recent call:

Lift the handset off the base unit and press ▼ or ▲.

↓

```
2 new calls
▼▲  ▶=Directory
```

Press ▼.

```
SMITH,JACK
1-222-333-4444
3:10P JUN10
```
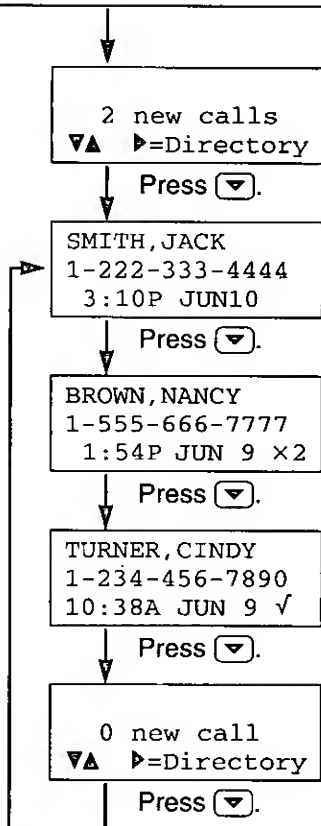
●If there is no name information for a caller, the display will only show the phone number.

Press ▼.

```
BROWN,NANCY
1-555-666-7777
1:54P JUN 9 ×2
```

To return to the previous caller, press ▲.

Press ▼.

```
TURNER,CINDY
1-234-456-7890
10:38A JUN 9 √
```

To exit the Caller List, press (OFF).

●The handset will return to the standby mode.

Press ▼.

```
0 new call
▼▲  ▶=Directory
```

Press ▼.

Display meaning:

√ : You have checked this caller information, answered the call or called back the caller.

×2–×9 : The number of times the same caller called (up to 9). After checking, "×2"–"×9" will be replaced with "√".

Calling Back from the Caller List

Display

Basic Operation
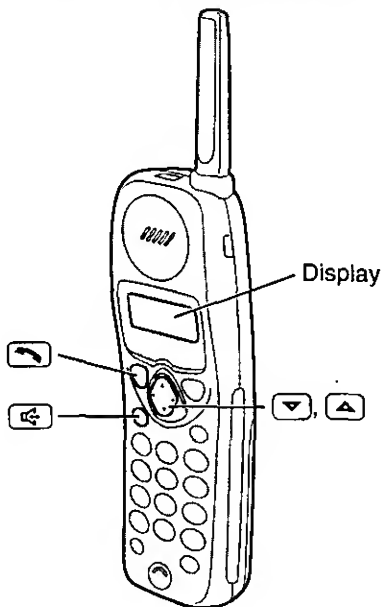
1 Lift the handset off the base unit and press ⊽ or ⊼ to enter the Caller List.

```
  3 new calls
▽△  ▷=Directory
```

2 Press ⊽ or ⊼ repeatedly to find the desired caller.

```
TURNER,CINDY
1-234-456-7890
11:20A JAN12 ×3
```

3 Press ⟋ or ⟨◱⟩.
● The displayed phone number is dialed automatically.

```
Talk
12344567890
```

● In some cases, you may have to edit the number before dialing (p. 34). (Ex. You may have to delete "1" and the area code.)
● If a phone number is not displayed in the caller information, you cannot call back that caller.

Editing the Caller's Phone Number

The unit can edit a phone number into one of 4 patterns.
Make sure the unit is in the standby mode.

1 Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.

```
   5 new calls
▽△  ▷=Directory
```

2 Press ▼ or ▲ repeatedly to find the desired caller, and press **EDIT** ▷.

```
PARKER,FRED      •
1-234-321-5555
11:20A JAN12 √
```

```
▷Edit
 Save directory
▽△        ▷=Yes
```

3 While the arrow points to "Edit", press **EDIT** ▷ (Yes key).

```
PARKER,FRED
1-234-321-5555
▼=Next    ▷=Edit
```

4 Press **EDIT** ▷ (Edit key) to select a pattern.

ⓐ
```
PARKER,FRED
321-5555
▼=Next    ▷=Edit
```

• Each time you press **EDIT** ▷, the number is rearranged into one of 4 different patterns.

ⓐ [Phone no.]

ⓑ [Area code] – [Phone no.]

ⓒ 1 – [Phone no.]

ⓓ 1 – [Area code] – [Phone no.]

• The order in which patterns ⓐ–ⓓ are displayed depends on how the telephone number is displayed in step 2.

ⓑ
```
PARKER,FRED
234-321-5555
▼=Next    ▷=Edit
```

ⓒ
```
PARKER,FRED
1-321-5555
▼=Next    ▷=Edit
```

ⓓ
```
PARKER,FRED
1-234-321-5555
▼=Next    ▷=Edit
```
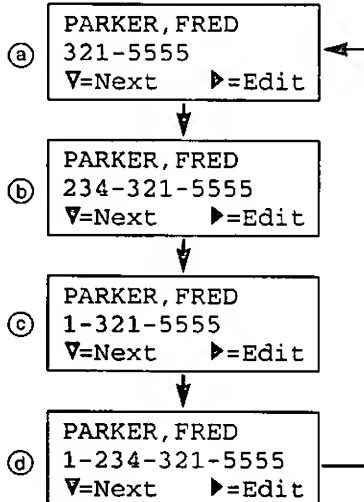
5 After editing the number, you can continue with calling back or storing procedures.
To call back, press 🔄 or 🔄 (p. 33).
To store the number in the directory, press ▼ (Next key). Follow the instructions on the display (p. 35).

```
PARKER,FRED
321-5555
▲=Edit    ▷=Save
```

• The number edited in step 4 will not be maintained in the Caller List.

Storing Caller List Information in the Directory

You can store numbers that are in the Caller List in the directory.
Make sure the unit is in the standby mode.

1 Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.

```
10 new calls
▼▲   ▷=Directory
```

2 Press ▼ or ▲ repeatedly to find the caller you want to store in the directory. Press **EDIT** ▷.

●If the number requires editing, see page 34.

```
TURNER,CINDY
1-234-456-7890
11:20A JAN12 ×3
```

```
▷Edit
  Save directory
▼▲          ▷=Yes
```

3 Press ▼ or ▲ to select "Save directory", and press **EDIT** ▷ (Yes key).

```
  Edit
▷Save directory
▼▲          ▷=Yes
```

If there is no name information for the caller, "Enter name" will be displayed.

a) If a name is not required, press ▼ (Next key) and **EDIT** ▷ (Save key).

```
Enter name
[]
◁▷          ▼=Next
```

b) If a name is required, enter the name (p. 41). When finished, press ▼ (Next key) and **EDIT** ▷ (Save key).

●A beep sounds.
●The display will return to step 2. You can continue storing other items.
To return to the standby mode, press **OFF**.

```
Enter name
CINDY TURNER|
◁▷          ▼=Next
```

```
CINDY TURNER
12344567890
▲=Edit     ▷=Save
```

●You can exit the programming mode any time by pressing **OFF**.
●If the display shows "Directory full" in step 3, the display will return to step 2. Press **OFF** to exit the list. To erase other stored items from the directory, see page 46.
●You cannot store caller information in the directory if a phone number is not displayed.
●If the display shows "Save error" or "No link to base Place on cradle and try again." in step 3, the item cannot be stored in the directory. Try again from step 1.

Basic Operation

Erasing Caller List Information

After checking the Caller List, you can erase some or all of the entries
Make sure the unit is in the standby mode.

To erase a specific caller from the Caller List

1 Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List

```
10 new calls
▽△  ▷=Directory
```

2 Press ▼ or ▲ repeatedly to find the caller you want to erase from the Caller List

```
REAGAN,TOM
1-888-777-6666
12 20A JAN12 √
```

3 Press (HOLD/INTERCOM/CLEAR)
● A beep sounds and the information is erased
● To erase other items, repeat from step 2
● To return to the standby mode, press (OFF)

```
Clear
```

To erase all entries in the Caller List

Before erasing all entries, make sure that "0 new call" is displayed

1 Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List

```
0 new call
▽△  ▷=Directory
```

2 Press (HOLD/INTERCOM/CLEAR)

```
▷Exit
 All clear
▽△           ▷=Yes
```

3 Press ▼ or ▲ to select "All clear"

```
 Exit
▷All clear
▽△           ▷=Yes
```

4 Press **EDIT** ▷ (Yes key) or (HOLD/INTERCOM/CLEAR)
● A beep sounds and all entries are erased
● The handset will return to the standby mode

```
All clear
```

Storing Phone Numbers in Memory

You can store up to 10 phone numbers in the base unit The dialing buttons ([0] to [9]) function as memory stations

Make sure the unit is in the standby mode.

1 Press [AUTO/PROGRAM]

●The IN USE/CHARGE indicator flashes

Memory Station Numbers

2 Enter a phone number up to 22 digits

●If you misdial, press [AUTO/PROGRAM] twice to end storing, and start again from step 1

3 Press [AUTO/PROGRAM]

[AUTO/PROGRAM]

IN USE/CHARGE Indicator

[REDIAL/PAUSE]

4 Press a memory station number ([0] to [9])

[SP-PHONE] and Indicator

●A beep sounds
●To store other numbers, repeat steps 1 through 4
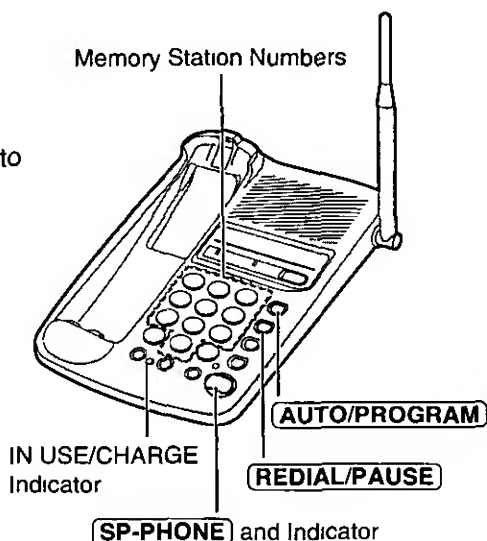
●If a pause is required for dialing, press [REDIAL/PAUSE] where needed
Pressing [REDIAL/PAUSE] counts as one digit (p 54)

Advanced Operation

To erase a stored number

Press [AUTO/PROGRAM] twice ➪ the memory station number ([0] to [9]) for the phone number to be erased

Dialing a Stored Number

1 Press (SP-PHONE)
●The SP-PHONE indicator lights

2 Press (AUTO/PROGRAM)

3 Press the memory station number ((0) to (9))
●The stored number is dialed

●Numbers stored in the base unit can only be dialed from the base unit
●If the line has rotary or pulse service, any access numbers stored after pressing (TONE) will not be dialed

Using the Directory · ▷

You can store up to 50 names and phone numbers in the directory
All directory items are sorted by the first word in alphabetical order
Using the directory, you can make a call by selecting a name on the
handset display

Storing Names and Numbers in the Directory

Make sure the unit is in the standby mode

Display

⊽, ▲,
CH ◁, EDIT ▷

OFF

The dialing buttons
can be used to enter
letters and symbols

HOLD/INTERCOM/CLEAR

REDIAL/PAUSE/FUNCTION
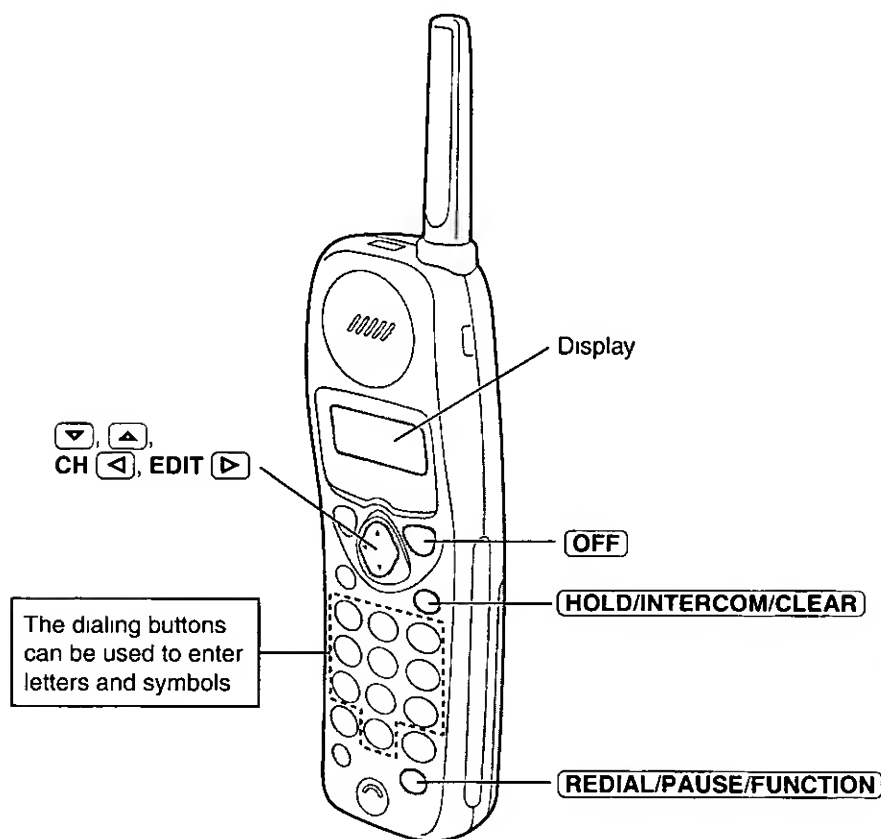
Advanced Operation

◆ Using the Directory

1 Press (**REDIAL/PAUSE/FUNCTION**)

```
   Program
▶Save directory
   Ringer volume
```

2 While the arrow points to "Save directory", press **EDIT** ▷
- The display shows the number of stored items in the directory

```
Directory=
   20 items
```

3 Enter a name, up to 15 characters, with the dialing buttons, **CH** ◁ or **EDIT** ▷
- See the steps for entering names and symbols (p 41)
- If a name is not required, press ▽ (Next key) and go to step 5

```
Enter name
▯
◀▶         ▽=Next
```

```
Enter name
Tom Jones
◀▶         ▽=Next
```

4 Press ▽ (Next key)

```
Enter phone no

```

5 Enter a phone number, up to 22 digits
- Each time you press (**HOLD/INTERCOM/CLEAR**), a character is erased from the right To erase all of the digits, press and hold (**HOLD/INTERCOM/CLEAR**)

```
0987654321▯

◀▶         ▽=Next
```

6 Press ▽ (Next key)

```
Tom Jones
0987654321
△=Edit     ▶=Save
```

7 Press **EDIT** ▷ (Save key)
- A beep sounds
- To continue storing other items, repeat from step 2
- To return to the standby mode, press (OFF)

- If a pause is required for dialing, (**REDIAL/PAUSE/FUNCTION**) can be stored in a phone number counting as one digit (p 54) in step 5
- You can exit the programming mode any time by pressing (OFF)
- If the display shows "Directory full" in step 2, the display will return to step 1 Press (OFF) to exit the list To erase other stored items from the directory, see page 46
- If the display shows "Save error" in step 7, the item cannot be stored in the directory Try again from step 1

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Steps for Entering Names and Symbols

The handset dialing buttons ([0] to [9]), CH [◁] and
EDIT [▷] can be used to enter letters and symbols
Each button selects a character as shown below
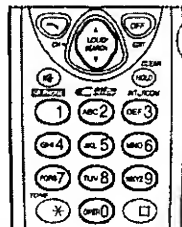
	Number of times key is pressed										
Keys	1	2	3	4	5	6	7	8	9	10	11
[1]	#	&	'	(	)	*	,	–		/	1
[2]	A	B	C	a	b	c	2				
[3]	D	E	F	d	e	f	3				
[4]	G	H	I	g	h	ı	4				
[5]	J	K	L	ȷ	k	l	5				
[6]	M	N	O	m	n	o	6				
[7]	P	Q	R	S	p	q	r	s	7		
[8]	T	U	V	t	u	v	8				
[9]	W	X	Y	Z	w	x	y	z	9		
[0]	0	Blank									
CH [◁]	To move the cursor to the left										
EDIT [▷]	To move the cursor to the right										

○To enter another character using the same dialing button, press EDIT [▷] to
move the cursor to the next space

If you make a mistake while entering a name

Use CH [◁] or EDIT [▷] to move the cursor to the incorrect character,
press (HOLD/INTERCOM/CLEAR) to delete and enter the correct character
Each time you press (HOLD/INTERCOM/CLEAR), a character is erased
from the right
To erase all characters, press and hold (HOLD/INTERCOM/CLEAR)

Advanced Operation

⇨ Using the Directory

For example, to enter "Tom Jones":

1 Press (REDIAL/PAUSE/FUNCTION).

2 While the arrow points to "Save directory", press **EDIT** ▷.

```
Directory=
  20 items
```

```
Enter name
 ▯
◀▷        ▼=Next
```

3 Press 8.

```
T
```

4 Press 6 six times, then press **EDIT** ▷ to move the cursor to the right.

```
To▯
```

5 Press 6 four times.

```
Tom      .
```

6 Press **EDIT** ▷ twice to enter a blank.

```
Tom ▯
```

7 Press 5.

```
Tom J
```

8 Press 6 six times, then press **EDIT** ▷ to move the cursor to the right.

```
Tom Jo▯
```

9 Press 6 five times.

```
Tom Jon
```

10 Press 3 five times.

```
Tom Jone
```

11 Press 7 eight times.

```
Enter name
Tom Jones
◀▷        ▼=Next
```

12 When finished, press ▼ (Next key).
  o Follow steps 5 to 7 on page 40 to complete the operation.

```
Enter phone no.
```

o While entering names, the cursor will flash on the display.

Finding Items in the Directory

Make sure the unit is in the standby mode.

1 Press **CH** ◁ or **EDIT** ▷ to enter
the directory list.

```
Directory list
▽△
▷=Caller's list
```

●In step 1, you can go to the Caller List
by pressing **EDIT** ▷ (p. 31).
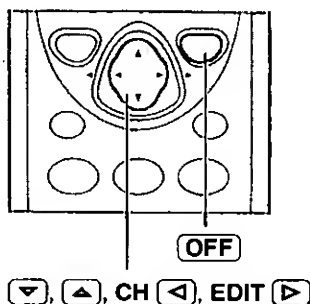
2 Press ▼ or ▲.
●The first item is displayed.

```
Ann
1234567890
```

OFF

▼, ▲, CH ◁, EDIT ▷

3 Press ▼ or ▲ repeatedly until the
desired item is displayed.

●All directory items are stored in the
order shown on the right.

To search for a name by the initial:

① Press the dialing button for the first
letter of the desired name until any
name with the same initial is
displayed (see the Index table on
page 44).
Ex. To find "Frank", press ③
repeatedly until the first item
under "F" is displayed.

② Press ▼ until the name is displayed.

Press ▼.   Press ▲.

| Alphabet |
| Symbol |
| Number |
| Telephone number (When a name is not stored) |

Advanced Operation
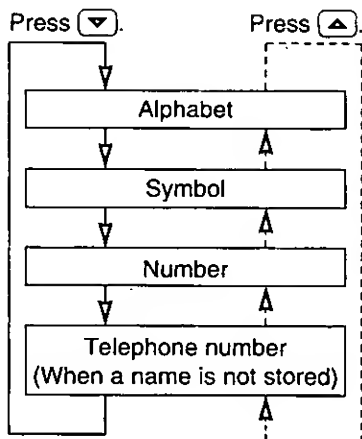
●You can exit the directory list any time by pressing OFF.
●If "No items stored" is displayed in step 2, the directory is empty. To return
to the standby mode, press OFF.

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Index table

Keys	Index	Keys	Index
①	Other symbols, 1	⑥	M, N, O, 6
②	A, B, C, 2	⑦	P, Q, R, S, 7
③	D, E, F, 3	⑧	T, U, V, 8
④	G, H, I, 4	⑨	W, X, Y, Z, 9
⑤	J, K, L, 5	⓪	0

Dialing from the Directory

1 Press **CH** ◄ or **EDIT** ► to enter the directory list

2 Press ▼ or ▲
   •The first item is displayed

3 Press ▼ or ▲ repeatedly to find the directory item that you want to dial

   •To search for the item by initial, see page 43

> Frank
> 4567890

4 Press ✆ or ⏻
   •The number is dialed automatically

> Talk
> 4567890

5 To hang up, press (OFF) or place the handset on the base unit

•You can exit the directory list any time by pressing (OFF)

Editing an Item in the Directory

Make sure the unit is in the standby mode.

1 Press **CH** ◁ or **EDIT** ▷ to enter the
directory list

2 Press ▽ or △
○The first item is displayed

3 Press ▽ or △ repeatedly to find the
directory item you want to change, and
press **EDIT** ▷
○To search for the item by initial, see page 43
○If you do not need to change the name, go to
step 5

```
Jane
1234567
```

```
Enter name
Jane
◁▷          ▼=Next
```

4 Edit the name using the dialing buttons,
CH ◁ or **EDIT** ▷ (p 41), up to
15 characters

```
Enter name
Jane Walker
◁▷          ▼=Next
```

5 Press ▽ (Next key)

```
1234567

◁▷          ▼=Next
```

6 Add a number to the current number
○If you do not need to change the number,
press ▽ (Next key) and go to step 8
○Each time you press
(**HOLD/INTERCOM/CLEAR**), a character is
erased from the right To erase all of the digits,
press and hold (**HOLD/INTERCOM/CLEAR**)

```
0981234567

◁▷          ▼=Next
```

7 Press ▽ (Next key)

```
Jane Walker
0981234567
△=Edit      ▷=Save
```

8 When finished, press **EDIT** ▷ (Save key)
○To continue editing other items, repeat steps 3
through 8
○To return to the standby mode, press (**OFF**)

```
Jane Walker
0981234567
```

○You can exit the directory list any time by pressing (**OFF**)

Advanced Operation

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Erasing an Item from the Directory

Make sure the unit is in the standby mode.

1 Press **CH** ◀ or **EDIT** ▶ to enter the directory list

2 Press ▼ or ▲
●The first item is displayed

3 Press ▼ or ▲ repeatedly to find the directory item you want to erase

●To search for the item by initial, see page 43

```
Helen
1234567890
```

4 Press (HOLD/INTERCOM/CLEAR)
●To stop erasing, press **CH** ◀ (No key)

```
Clear?

◀=No        ▶=Yes
```

5 Press **EDIT** ▶ (Yes key) or (HOLD/INTERCOM/CLEAR)

●A beep sounds
●To erase other items, repeat from step 3
●To return to the standby mode, press (OFF)

```
Clear
```

●You can exit the directory list any time by pressing (OFF)

Voice Mail Service

▷

Voice mail service is an electronic on-line answering system offered by your telephone company. After subscribing, the voice mail system can answer calls automatically when your line is busy or if calls are not answered. Callers can leave messages by following the pre-recorded instructions. When voice mail messages will be recorded, "Voicemail" will be displayed and the VOICE MAIL indicator on the base unit will flash.

To use this feature, you must first store your access number.

Storing a Voice Mail Access Number

Make sure the unit is in the standby mode.

Display

(OFF)

(HOLD/INTERCOM/CLEAR)

VOICE MAIL Indicator

EDIT ▷

(REDIAL/PAUSE/FUNCTION)

(FLASH/CALL WAIT/VOICE MAIL)

(VOICE MAIL)

(SP-PHONE)
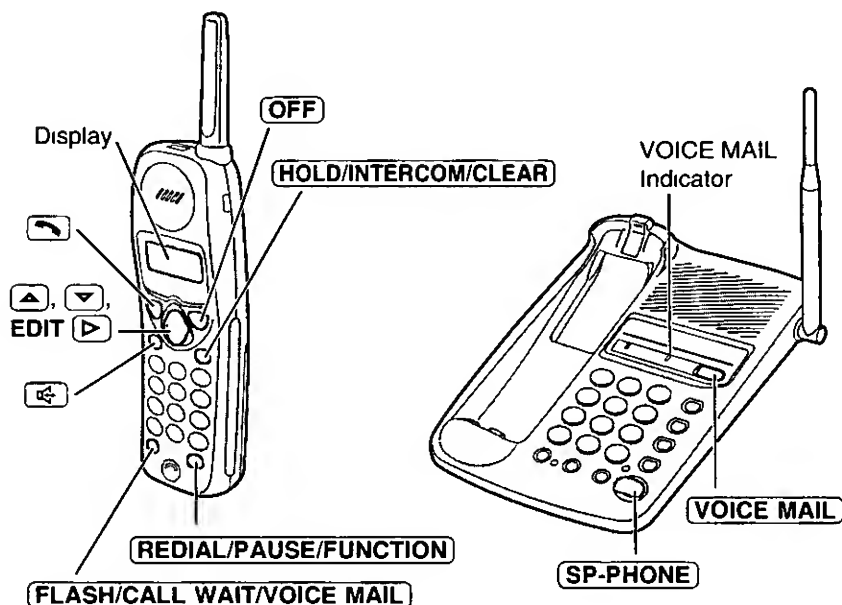
Advanced Operation

1 Press (REDIAL/PAUSE/FUNCTION)

2 Press ⬇ or ⬆ repeatedly until the arrow points to "Program"

```
Ringer volume
▶Program
  Save directory
```

3 Press EDIT ▷

4 Press ▼ or ▲ repeatedly until the arrow points to "Save mailbox#"

```
  Set flash time
▶Save mailbox#
  Voicemail tone
```

5 Press EDIT ▶

```
□

◀▶            ▼=Next
```

6 Enter your access number, up to 32 digits
- You may enter pauses*
- If you enter a wrong number, press (HOLD/INTERCOM/CLEAR) Digits are erased from the right To erase all of the digits, press and hold (HOLD/INTERCOM/CLEAR)

```
1234567PPP8901□

◀▶            ▼=Next
```

7 Press ▼ (Next key)
- If you want to edit the entered number, press ▲ (Edit key) and return to step 6

```
1234567PPP8901

▲=Edit    ▶=Save
```

8 Press EDIT ▶ (Save key)
- A beep sounds
- To return to the standby mode, press (OFF)

```
1234567PPP8901

Save mailbox#
```

---

*For quick access to your voice mail box by using
(FLASH/CALL WAIT/VOICE MAIL) or (VOICE MAIL), you may add pauses between your voice mail box access number and your mail box password in step 6
Ex 1-222-333-4444 PPP 8888
Your voice mail box access number | └─Your mail box
Pauses   password

Pressing (REDIAL/PAUSE/FUNCTION) once creates a 3 5 second delay and counts as one digit The delay time depends on a telephone company

To erase a stored number

Repeat steps 1 through 5 ➡ press and hold (HOLD/INTERCOM/CLEAR) until all of the digits are erased ➡ ▼ (Next key) ➡ EDIT ▶ (Save key)

- A beep sounds
- You can exit the programming mode any time by pressing (OFF)

Setting the Voice Mail Tone

If your voice mail service sends a voice mail tone after a new message
has been recorded, set to "On" "Voicemail" will be displayed and the
VOICE MAIL indicator on the base unit will flash when a message has
been recorded in your mailbox You will hear a series of voice mail tones
followed by a dial tone after pressing (➘), (◁) or (SP-PHONE) (Contact
your service provider for details about your service)
Set to "Off" if
—you do not subscribe to a voice mail service,
—your voice mail service does not send a voice mail tone, or
—the unit is connected to a PBX
Your phone comes from the factory set to "On"

Make sure the unit is in the standby mode.

1 Press (REDIAL/PAUSE/FUNCTION)

2 Press (▼) or (▲) repeatedly until the arrow
points to "Program"

```
  Ringer volume
▶Program
  Save directory
```

3 Press EDIT (▷)

4 Press (▼) or (▲) repeatedly until the arrow
points to "Voicemail tone"

```
  Save mailbox#
▶Voicemail tone
  Set line mode
```

5 Press EDIT (▷)

```
  Voicemail tone
              On
▽△        ▶=Save
```

6 Press (▼) or (▲) to select "Off" or "On"

7 Press EDIT (▷) (Save key)
  • A beep sounds
  • To return to the standby mode, press (OFF)

```
  Voicemail tone
             Off
```

Advanced Operation

• You can exit the programming mode any time by pressing (OFF)

Listening to Voice Mail Messages

After receiving a voice mail message, "Voicemail" will be displayed and the VOICE MAIL indicator on the base unit will flash
To listen to your voice mail message(s), follow the steps below

With the handset

1 Press (**FLASH/CALL WAIT/VOICE MAIL**)
   ○The stored voice mail access number is displayed (p 47, 48)

```
1234567PPP8901
```

2 Press (☎) or (📢)
   ○The unit automatically dials the access number

```
Talk
1234567PPP8901
```

3 Follow the pre-recorded instructions

4 When finished, press (**OFF**)

With the base unit

1   Press (**VOICE MAIL**)
   ○The unit is connected to the telephone line and automatically dials the access number
2   Follow the pre-recorded instructions
3   When finished, press (**SP-PHONE**)

○If "Voicemail" still remain on the display or the VOICE MAIL indicator still flashes even if you have listened to your voice mail message(s), press (**REDIAL/PAUSE/FUNCTION**), and press and hold (**HOLD/INTERCOM/CLEAR**) until the unit beeps "Voicemail" will disappear and the VOICE MAIL indicator will turn off
○If your voice mail service uses a voice mail tone and the recorded message is over 3 minutes long, "Voicemail" may not be displayed
○If your voice mail service uses a voice mail tone, the tone will be heard from any parallel connected phone If you use another phone to retrieve messages, you have to dial your access number manually

A 2-way intercom is possible between the handset and the base unit.

Paging the base unit from the handset

1 Handset:
Press
(HOLD/INTERCOM/CLEAR).
Talk to the paged party after
the beeps.
∘"Intercom" is displayed.

2 Base unit:
When the other party's voice
is heard, answer using the
MIC.

3 Handset:
To end the intercom, press
(OFF).

OFF
HOLD/INTERCOM/CLEAR

MIC
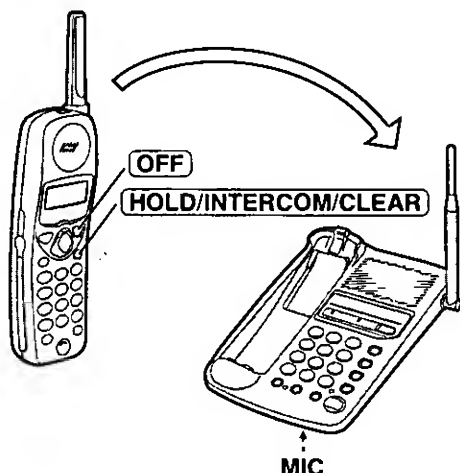
Paging the handset from the base unit (Handset locator)

Using this feature, you can locate a misplaced handset.

1 Base unit:
Press (LOCATOR/INTERCOM).
∘The handset beeps for 1 minute
and displays "Paging Press
INTERCOM".
∘To stop paging, press
(LOCATOR/INTERCOM) again.

2 Handset:
Press (HOLD/INTERCOM/CLEAR)
to answer.
∘"Intercom" is displayed.

3 Base unit:
Talk into the **MIC**.

4 Handset:
To end the intercom, press (OFF).

MIC
LOCATOR/INTERCOM
HOLD/INTERCOM/CLEAR
OFF

Advanced Operation

During an intercom call:

- Intercom calls can only be ended with the handset.
- If the handset user has difficulty hearing the base unit user, decrease the base unit speaker volume by pressing **VOLUME** ⌄.
- If an incoming call is received, the intercom call stops and the unit starts to ring. To answer, press ⟨⟩, ⌊⌽⌋ or ⟨SP-PHONE⟩.

Transferring a Call Using the Intercom

The intercom can be used during a call. This feature enables you to transfer a call between the handset and the base unit.

From the handset to the base unit

1 Handset:
   During a call, press
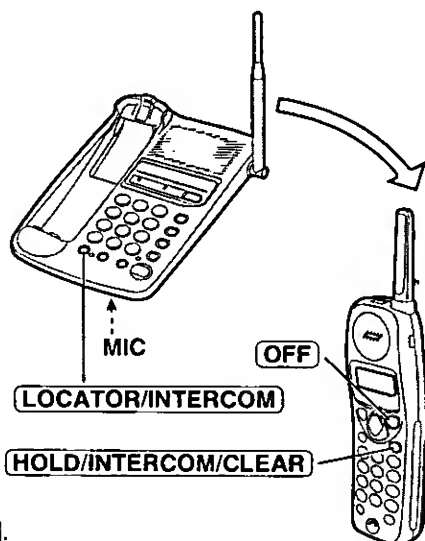   ⟨HOLD/INTERCOM/CLEAR⟩.
   - The call is put on hold and "Hold" is displayed.

2 Handset:
   Press
   ⟨HOLD/INTERCOM/CLEAR⟩
   again. Talk to the paged party after the beeps.
   - "Intercom hold" is displayed.
   - If the base unit user does not answer, press ⟨⟩ or ⌊⌽⌋ to return to call.

3 Base unit:
   When the paging party's voice is heard, answer using the **MIC**.

4 Base unit:
   To answer the call, press
   ⟨SP-PHONE⟩.
   - The transfer is complete.

From the base unit to the handset

1 Base unit:
   During a call, press
   ⟨LOCATOR/INTERCOM⟩.
   - The call is put on hold and "Paging Press Intercom" is displayed on the handset.
   - If the handset user does not answer, press ⟨SP-PHONE⟩ to return to call.

2 Handset:
   Press
   ⟨HOLD/INTERCOM/CLEAR⟩ to answer the page.
   - "Intercom hold" is displayed.

3 Handset:
   To answer the call, press
   ⟨⟩ or ⌊⌽⌋.
   - The transfer is complete.

Display

⊽, ⊼,
EDIT ▷

(OFF)

(TONE)

(TONE)

(TONE)

(REDIAL/PAUSE/FUNCTION)

(REDIAL/PAUSE)

(FLASH/CALL WAIT/VOICE MAIL)

(FLASH/CALL WAIT)
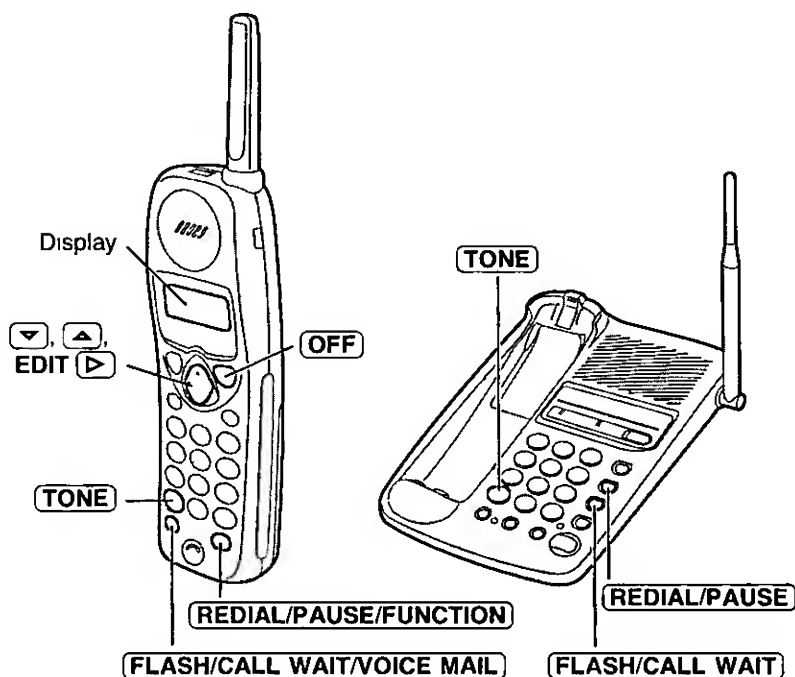
Automatic Security Code Setting

Each time you place the handset on the base unit, the unit automatically selects one of more than a million security codes These codes help prevent the unauthorized use of your telephone line by another cordless telephone user

Temporary Tone Dialing
(For Rotary or Pulse Service Users)

Press (TONE) before entering access numbers which require tone dialing

o The dialing mode changes to tone You can enter numbers to access an answering service, electronic banking service, etc When you hang up, the mode will return to pulse

o Access numbers entered after pressing (TONE) will not be included when redialing

Advanced Operation

For Call Waiting Service Users

Press (**FLASH/CALL WAIT/VOICE MAIL**) or (**FLASH/CALL WAIT**) if you hear a call-waiting tone while talking

○The first call is put on hold and you can answer the second call
○To return to the first caller, press (**FLASH/CALL WAIT/VOICE MAIL**) or (**FLASH/CALL WAIT**) again
○The call waiting service cannot be used when a parallel connected telephone is in use
○If this function does not operate properly, consult your telephone company for details

Call Waiting Caller ID Feature

Call Waiting Caller ID Feature allows your unit to display the second caller's information After you hear a call-waiting tone while talking, the unit will display the caller's name with the phone number and "----Waiting----"

```
BROWN, NANCY
1-000-222-3333
----Waiting----
```

○Please contact your telephone company for details and availability in your area

How to Use the PAUSE Button

(For Analog PBX Line/Long Distance Service Users)

We recommend you press (**REDIAL/PAUSE/FUNCTION**) or (**REDIAL/PAUSE**) if a pause is required for dialing with a PBX or to access a long distance service

Ex Line access number (**9**) (PBX)

(**9**) ⇨ (**REDIAL/PAUSE/FUNCTION**) or (**REDIAL/PAUSE**) ⇨

⇨ | Phone number |

○Pressing (**REDIAL/PAUSE/FUNCTION**) or (**REDIAL/PAUSE**) once creates a 3 5 second pause This prevents misdialing when you redial or dial a stored number
○Pressing (**REDIAL/PAUSE/FUNCTION**) or (**REDIAL/PAUSE**) more than once increases the length of the pause between numbers

FLASH Button

Pressing (FLASH/CALL WAIT/VOICE MAIL) or (FLASH/CALL WAIT) allows you to use special features of your host PBX such as transferring an extension call or accessing special telephone services (optional) such as call waiting

Selecting the flash time

The flash time depends on your telephone exchange or host PBX
You can select the following flash times "700, 600, 400, 300, 250, 110, 100 or 90 ms (milliseconds)" Your phone comes from the factory set to "700 ms"
Make sure the unit is in the standby mode.

1 Press (REDIAL/PAUSE/FUNCTION)

2 Press ▼ or ▲ repeatedly until the arrow points to "Program"

| Ringer volume |
| ▶Program |
| Save directory |

3 Press EDIT ▷

4 Press ▼ or ▲ repeatedly until the arrow points to "Set flash time"

| LCD contrast |
| ▶Set flash time |
| Save mailbox# |

5 Press EDIT ▷

| Flash time |
| 700ms |
| ▽△   ▷=Save |

6 Press ▼ or ▲ repeatedly until the desired time is displayed

7 Press EDIT ▷ (Save key)
  o A beep sounds
  o To return to the standby mode, press (OFF)

| Flash time |
| 110ms |

o You can exit the programming mode any time by pressing (OFF)
o If you are connected via a PBX, a longer flash time may be necessary to use PBX functions (transferring a call etc) Consult your PBX supplier for the correct setting

Wall Mounting

This unit can be mounted on a wall phone plate

1 Push the hook and turn it around
Turn the hook until a click is heard
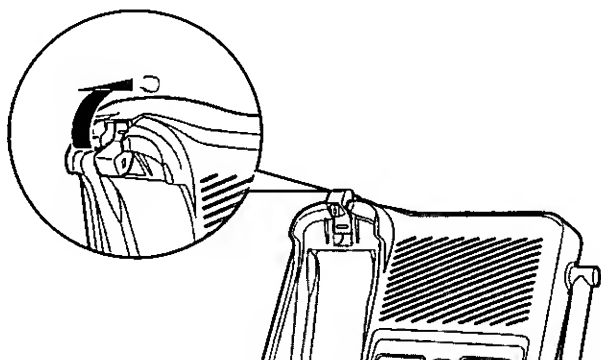
2 Connect the AC adaptor

To Power
Outlet
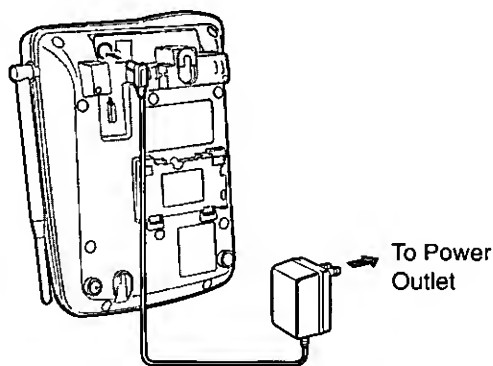
3 Tuck the telephone line cord inside
the wall mounting adaptor, then
push it in the direction of the arrow
•The word "UP" should face upward
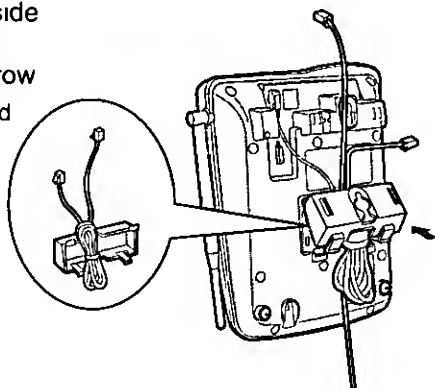
4 Connect the telephone line cord
  Mount the unit, then slide down

  o Raise the antenna
  o Fasten the telephone line cord to
    prevent it from being disconnected

Wall Phone Plate
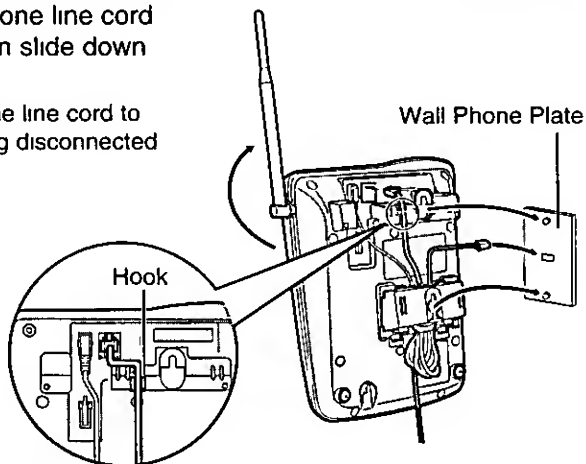
Hook

5 **To charge the battery:**
  Fix the charge contacts (①) and insert
  the hook to the handset hole (②)

  o The IN USE/CHARGE indicator lights

Hook

Hole

OR
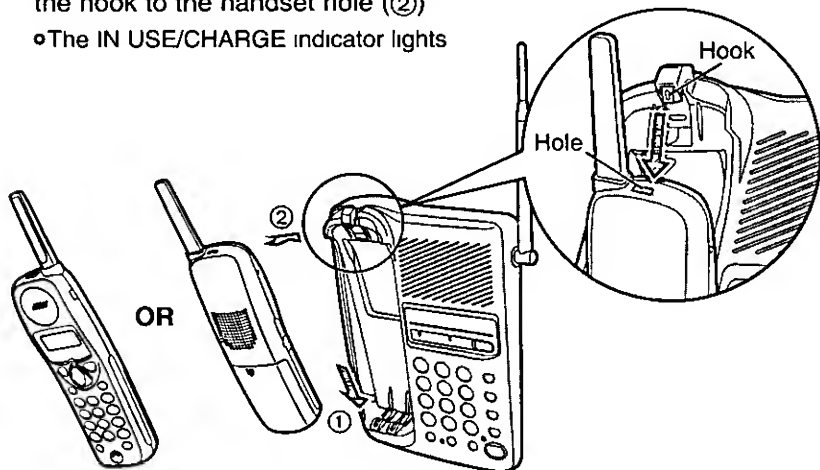
Battery Replacement

If "Recharge" is displayed and/or "[▇]" flashes after being fully charged, replace the battery with a new Panasonic P-P504 battery To order, call the accessories telephone number on page 2

1 Press the notch on the battery cover firmly and slide it as indicated by the arrow
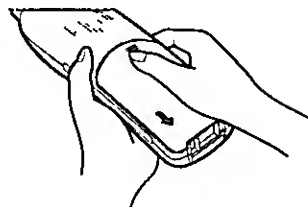
2 Remove the old battery Then install the new one

●Insert the battery plug into the connector as shown in the picture

Black Lead

Red Lead
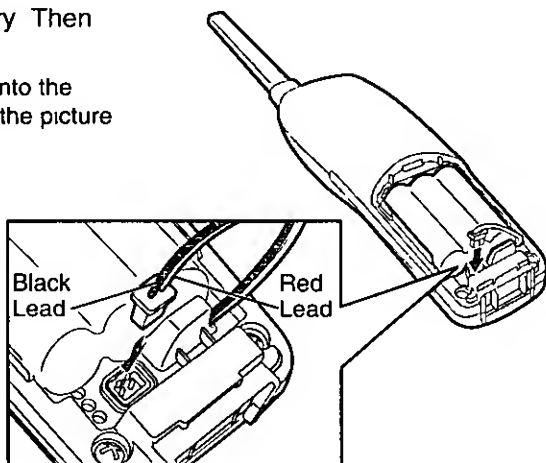
3 Close the cover Make sure you charge the new battery for about 15 hours in order to display the battery strength prompt correctly (p 12)

A nickel cadmium battery that is recyclable powers the product you have purchased At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream Please call 1-800-8-BATTERY for information on how to recycle this battery

Adding Another Phone

This unit will not function during a power failure To connect a standard telephone on the same line, use the Panasonic T-adaptor KX-J66 To order, call the accessories telephone number on page 2

Standard
Telephone

Single-Line
Telephone Jack

Telephone
Line Cord

T-Adaptor (KX-J66)

Before Requesting Help

Problem	Cause and Remedy
The unit does not work.	○Check the settings (p. 11–16). ○Charge the battery fully (p. 12). ○Clean the charge contacts and charge again (p. 13). ○Install the battery properly (p. 58). ○Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, and try again.
"No link to base Place on cradle and try again." is displayed and an alarm tone sounds.	○You are too far from the base unit. Move closer and try again. ○Place the handset on the base unit and try again. ○Plug in the AC adaptor. ○Raise the base unit antenna.
Static, sound cuts in/out, fades. Interference from other electrical units.	○Locate the handset and the base unit away from other electrical appliances (p. 3). ○Move closer to the base unit. ○Raise the base unit antenna. ○Press **CH** ◁ to select a clearer channel in the talk, speakerphone, or intercom.
The handset and/or the base unit do not ring.	○The ringer volume is set to OFF. Set to HIGH or LOW (p. 19).
The handset display is blank.	○The handset is in the standby mode (p. 13). Press ▽, △, **CH** ◁ or **EDIT** ▷ to turn the display on.
The handset display is still blank after pressing ▽, △, **CH** ◁ or **EDIT** ▷.	○Charge the battery fully (p. 12).

Problem	Cause and Remedy
You cannot program items, such as the dialing mode	○Programming is not possible while the unit is in the talk, speakerphone or intercom mode, when viewing the Caller List/directory list ○Do not pause for over 60 seconds while programming ○Move closer to the base unit ○(▽), (▲), CH (◁) or **EDIT** (▷) may have been pressed when you picked up the handset Press (OFF) and try again
Previously programmed information is erased	○If a power failure occurs, programmed information may be erased Reprogram if necessary
You cannot store a name and phone number in the directory	○You cannot store an item in the directory while the unit is in the talk or intercom mode, or while the answering system is in use ○Do not pause for over 60 seconds while storing
While programming or searching, the unit starts to ring and stops the program/search	○To answer the call, press (📞), (📞) or **(SP-PHONE)** Start again from the beginning after hanging up
The unit does not display the caller's name and/or phone number	○You do not subscribe to a Caller ID service ○Other telephone equipment may be interfering with your phone Disconnect it and try again ○Other electrical appliances connected to the same outlet may be interfering with the Caller ID information ○Telephone line noise may be affecting the Caller ID information

Useful Information

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➧ Before Requesting Help

Problem	Cause and Remedy
The handset display goes to the standby mode while viewing the Caller List.	●Do not pause for over 60 seconds while searching.
When a second call is received during a conversation, the unit does not display the new caller's name and/or phone number.	●The line mode selection is incorrect. See page 15. ●The caller requested not to send his/her information. See page 30.
(LOCATOR/INTERCOM) does not function.	●The handset is too far from the base unit. ●The handset is engaged in an outside call or is viewing the Caller List/directory list. Wait until the IN USE/CHARGE indicator light goes out.
You cannot redial by pressing (REDIAL/PAUSE/FUNCTION) or (REDIAL/PAUSE).	●If the last number dialed was more than 32 digits long, the number will not be redialed correctly. ●Access numbers entered after pressing (TONE) will not be included when redialing.
"Recharge" is displayed, "〔 ▮〕" flashes or the unit beeps intermittently.	●Charge the battery fully (p. 12).
You charged the battery fully, but "Recharge" is still displayed and/or "〔 ▮〕" continues to flash.	●Clean the charge contacts and charge again (p. 13). ●Install a new battery (p. 58).
The IN USE/CHARGE indicator light does not go out while charging.	●This is normal.

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Problem	Cause and Remedy
You cannot have a conversation using the handset.	○When an optional headset is connected (p. 16), you must use the headset to talk with the caller. To have a normal cordless phone conversation, disconnect the headset.
You cannot have a conversation using the headset.	○Make sure that an optional headset is connected properly (p. 16). ○ ⟨🔊⟩ may have been pressed. If "SP-phone" is displayed, press ⟨➤⟩ to continue the conversation with the headset.
If you cannot solve your problem	○Call our customer call center at 1-800-211-PANA(7262). ○Panasonic's e-mail address for customer inquiries: consumerproducts@panasonic.com for customers in the USA or Puerto Rico ONLY

Useful Information

Important Safety Instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
    A. When the power supply cord or plug is damaged or frayed.
    B. If liquid has been spilled into the unit.
    C. If the unit has been exposed to rain or water.
    D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
    E. If the unit has been dropped or physically damaged.
    F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

○The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

Useful Information

FCC and Other Information

If requested by the telephone company, inform them as follows
FCC Registration No   (found on the bottom of the unit)
Ringer Equivalence .   0 1B
The particular telephone line to which the equipment is connected

This unit must not be connected to a coin operated line
If you are on a party line, check with your local telephone company

Ringer Equivalence No (REN):
The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5 0) To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped

However, where prior notice is impractical, the company may temporarily cease service providing that they
(a) Promptly notify the customer
(b) Give the customer an opportunity to correct the problem with their equipment
(c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service

When programming emergency numbers and/or making test calls to emergency numbers
1 Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up
2 Perform such activities in the off-peak hours, such as early morning hours or late evenings

This device complies with Part 15 of the FCC Rules Operation is subject to the following two conditions (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

Privacy of communications may not be ensured when using this phone

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CAUTION

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules These limits are designed to provide reasonable protection against harmful interference in a residential installation This equipment generates, uses,'and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications However, there is no guarantee that interference will not occur in a particular installation If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures
—Reorient or relocate the receiving antenna
—Increase the separation between the equipment and receiver
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
—Consult the dealer or an experienced radio/TV technician for help

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR If interference is experienced, move the cordless telephone further away from the TV or VCR This will often reduce, or eliminate, interference

o**Environment**—do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F) Allow 10 cm (4") clearance around the unit for proper ventilation Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight

o**Routine care**—wipe the unit with a soft cloth Do not use benzine, thinner, or any abrasive powder When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet

o**If there is any trouble**—disconnect the unit from the telephone line and connect a known working phone If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers If the known working phone does not operate properly, consult your telephone company

For product service

•Call 1-800-211-PANA(7262) for the location of an authorized
 servicenter
•Panasonic's e-mail address for customer inquiries
 consumerproducts@panasonic com
 for customers in the USA or Puerto Rico ONLY

When you ship the product

•Carefully pack your unit, preferably in the original carton
•Attach a letter, detailing the symptom, to the outside of the carton

Symptom
_____

_____

•Send the unit to an authorized servicenter, prepaid and adequately
 insured
•Do not send your unit to the Panasonic Consumer Electronics Company
 listed below or to executive or regional sales offices These locations do
 not repair consumer products

• This cordless telephone is designed for use in the United States of America
  Sale or use of this product in other countries may violate local laws
• Ce téléphone sans fil est conçu pour être utilisé aux Etats-Unis d'Amérique
  La vente ou l'emploi de cet appareil dans certains autres pays peut constituer
  une infraction à la legislation locale
• Este teléfono sin cordón fue elaborado para uso en los Estados Unidos de
  América La venta o el empleo de este producto en ciertos paises puede
  constituir violacion de la legislacion local
• このコードレス電話機は、日本国外での使用を目的として設計されており、日本国内
  での使用は法律違反となります。従って、当社では日本国内においては原則として修
  理などのサービスは致しかねます。

Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation of America
One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Sales Company,
Division of Matsushita Electric of Puerto Rico, Inc.
Ave 65 de Infantería, Km 9 5, San Gabriel Industrial Park
Carolina, Puerto Rico 00985